

GETAC M230 Fully Rugged Notebook

Running on Intel's Intel Core 2 Duo 1.50Ghz L7400 64bit Processor, the M230 is a laptop computer that endures the standards set by the military for extreme use. The M230 provides all you would expect of a commercially available laptop computer; with a powerful processor, low power consumption, large storage capacity, lightweight design, and ease-of-use. In addition, the M230 features a versatile Bay 1 and removable HDD bay design. The M230's Bay 1 can accommodate an optical drive, or a second battery.



Improving on an already rugged computer system, the M230 surpasses other industry leading laptops by surviving the IP65 standard, which translates to the ultimate in dust and water resistance because the M230 can handle dust and water jet spray from any directions. It also has options for -20°C low temperature performance, MIL-STD-461F EMI performance or explosive atmosphere performance.

Going beyond rugged, the M230 is a powerful notebook computer. It features a large, bright 14.1" TFT XGA or 15" SXGA+ display LCD screen with 128MB of shared RAM (a dedicated 512MB option is available) that provides vibrant images whether indoors or outdoors. For direct sunlight applications, an optional outdoor viewable display and A/R reflective coating is available. A touch screen option is also available to the on-the-go/in-vehicle users. The main battery powers the M230 for up to 4 hours of full-out use. The optional second battery adds two more hours, but the optional vehicle mount lets the unit recharge and function continuously.

Key Features

- Intel Core 2 Duo L7400 64 bit
- 250GB to 320GB Shock-protected Removable SATA Hard Drive
- Full Magnesium Alloy Case with Handle
- IP65 Moisture- and Dust-resistant Design
- Up to 4 Hours Battery Life
- Bright 14.1" Colour Display
- Optional 15" Colour Display
- Extremely Compact
- Low Temperature, EMI & Explosive Atmosphere Options



Rugged Systems is one of Europe's leading suppliers of rugged, mobile computer, display and communications solutions and services. Specialising in applications such as test & measurement, command and control, data acquisition, secure data & computing, TEMPEST and ultra-reliable message transfer over noisy tactical communication channels. The company strives to be innovative and provide cost effective solutions, through many years of knowledge and experience

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Specifications



FUNCTIONAL

Processor	Intel Core 2 Duo L7400 1.5GHz Processor, 667MHz FSB, 4M L2 Cache Intel 945GMS Express Chipset
Memory	2GB DDR2 standard, expandable to 4GB
Storage	Standard: 250GB; up to 320GB; SATA HDD Built in the system, easy removable for maintenance - Option: SATA SDD 80GB; up to 160GB
Display	Bay 1: Easy swappable bay for Super Multi-DVD Recorder/ 2nd Battery 14.1" TFT XGA (1024x768) SPWG type 14.1" LCD 15.0" TFT SXGA+ (1400x1050) SPWG type 15.0" LCD Factory Optional Touch Screen & QuadraClear sunlight readable display
VGA Controller	Integrated in 950 chipset, share system memory up to 128MB, 32bit 2D/3D graphic core with Dynamic Video Memory Technology, Dual View Function/ LCD/CRT simultaneous display capability (Factory optional nVidia GeForce™ G105M with 512MB VRAM)
Keyboard	Water-proof membrane keyboard; Factory Optional Waterproof Rubber & Backlit Rubber keyboard
Pointing Device	Touch-sensitive control pad, Optional pressure sensitive touchscreen
I/O Ports	Serial port x 2; USB 2.0 x 2 (Support boot from USB Optical Drive, current up to 1A); IEEE1394b; (Parallel port x1 now removed); DC input x 1; RJ-45 x 1; RJ-11 x 1; Microphone-in; Kingston Lock Hole; Docking Port (POGO, hot docking)
PCMCIA	Type II x 2 or Type III x 1
Audio System	AC97 Rev 2.3 audio support, compatible digital controller, Built-in Stereo 2W speakers
Integrated Communications	Integrated 10/100/1000 base-T Ethernet, 56kbps Modem; Intel WiFi Link 5100 802.11 a/b/g - 1 antenna. Factory Optional GPS module from USB - 1 antenna, Optional EVDO / GSM / GPRS / EDGE / UMTS / HSDPA wireless module, Optional Bluetooth 2.0 module from internal USB - 1 antenna
Operating System	Microsoft® Windows 7 Professional or Vista Business

ENVIRONMENTAL (MIL-STD-810G)

Temperature	IEC 68-2-1,2,14/MIL-STD 810 F, Method 501.4, 502.4 • Operating Temp: 0° to 60° C standard Storage Temp: -40° to +71° C
Vibration	Sinusoidal wave vibration according to IEC 68-2-6: Operating: 10~57.5Hz/0.075mm, 57.55~500Hz/1.0g Random: according to MIL-STD-810F, 514.5 Highway truck vibration exposure Non-operating: 10~57.5Hz/0.15mm, 57.5~500Hz/2.0g.
Shock	MIL-STD-810F-514.5C-17 General minimum integrity exposure IEC 68-2-27 / MIL-STD-810F, Method 516.5; Operating : 15g, 11 ms, half sine wave Non-operating : 50g, 11 ms, half sine wave
Drop	IEC 68-2-32 / MIL-STD-810F, Method 516.5: 3 feet height free drop Test surface: steel/plywood plate 26 drops
Humidity	IEC 68-2-13/MIL-STD 810 F, Method 507.4, 5% to 95% RH, Non-condensing
Altitude	IEC 68-2-13 / MIL-STD-810F, Method 500.4 - Operating : 15,000ft; Non-operating : 40,000ft; Altitude change rate : 2,000 ft/min
ESD	According to IEC1000-4-2; Air Discharge: 0KV~8KV(included), no any error; 9KV~15KV, allow soft error Contact Discharge: 0KV~6KV(included), no any error; 7KV~ 8KV, allow soft error
Enclosure	IEC529, MIL-STD-810G, IP65
EMI & Safety	CE, FCC part 15, Subpart B, Class B, UL, CUL, TUV, CE, CCC, WHQL Optional: MIL-STD-461F & Explosive CSA Class 2.1

PHYSICAL

Dimensions	(WxDxH) 328mm x 272 mm x 46 mm
Weight	9.16lbs (4.15kg)
Structure	Full Magnesium Alloy die-cast casing with handle, Moisture- and dust-resistant LCD, Water-resistant keyboard and touchpad, Port seals, Rugged and dust-resistant LCD hinges.

ELECTRICAL

AC Input	Input: 100-240v, 50/60Hz AC Output: 90 Watts,
Battery	Main battery supports over 4 hours use; Second battery supports over 2 additional hours use

ACCESSORIES/OPTIONS

Port Replicator Board for Vehicle Mount	Serial Port x 2 (from USB); Parallel Port x 1 (from USB); BNC S-Video in for Video Capture (from USB); USB Port x 2 (support current up to 1A); DC-in x1; Microphone In x1; Line-out x1; Support charge function via car adapter; Power on indicator; Support GPS and WWLAN pass through antenna
Others	Vehicle Mount / Docking; Port Replicator; Car Adapter; Battery Pack; Car Adapter (12-32VDC)

Information in this document is subject to change without notice.



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